

Abstract of the Disclosure

5 A piezoelectric pipetting device housing and methods for making and using the same is disclosed. A protected capillary includes a rigid tube and a glass capillary that is bonded to an interior surface of the rigid tube. The protected capillary optionally includes a piezoelectric actuating element adjacent a
10 portion of the exterior surface of the glass capillary. The protected capillary further optionally includes a sensor that is adjacent a third portion of the exterior surface of the glass capillary or a temperature regulator. Methods for making and using the protected capillary are also disclosed.